

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STERLING
PRODUCT NO: TM113
RECOMMENDED USE: Automotive Wheel Brightener

COMPANY: TRANS-MATE, INC.
13 Sterling Road
N. Billerica, MA 01862
USA
978-667-0100

EMERGENCY TELEPHONE NUMBER: Trans-Mate - 978-667-0100
CHEMTREC - 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION**DANGER Corrosive**

Acute Effects: Causes severe eye irritation or burns which may lead to loss of vision. Causes severe skin irritation or burns that may not be noticeable at first. Vapor or mist cause irritation to nose and throat and may cause mucous membrane irritation and inflammation, cough, and narrowing of the bronchi which can lead to upper airway obstruction and lung injury. Respiratory paralysis may lead to death. Ingestion causes severe irritation or burns to gastrointestinal tract.

Chronic Effects: May aggravate pre-existing skin and respiratory tract conditions. See Section 11.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	WEIGHT %
Ammonium bifluoride (ammonium hydrogen difluoride)	1341-49-7	5-10**
Quaternary ammonium compounds*	NA	1-5**
Ethoxylated C9-11 alcohols	68439-46-3	1-5**

*Identity of this ingredient is a trade secret

**Exact percentage of this ingredient is a trade secret

SECTION 4: FIRST AID MEASURES

EYES: Flush with plenty of water for 15 minutes while holding eyelids apart. Get medical attention at once. Trained personnel should apply 1% calcium gluconate by continuous drip.

SKIN: Immediately remove contaminated clothing and rinse area with water for 15 minutes. Apply 2.5% calcium gluconate gel to burn sites. Wash contaminated clothing before reuse. Discard leather goods. Get medical attention at once.

INHALATION: Remove to fresh air. If breathing is difficult, get medical attention immediately. Trained personnel should provide 2.5% calcium gluconate solution by nebulizer with victim sitting upright. If victim is not breathing, use Ambu-Bag, do not give mouth-to-mouth resuscitation.

INGESTION: Do not induce vomiting; aspiration hazard. Contact poison control center immediately. Drink water, milk or a solution of calcium gluconate or calcium lactate. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, dry chemical, carbon dioxide or "alcohol" foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion may produce noxious and irritating gases which will require fresh air source in fire fighting.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear as a general precaution.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment; see Section 8.

Keep product from entering storm sewers and ditches that may lead to waterways.

Stop spill at source; dike and contain large spills and transfer to recovery container. Use absorbent for small spills and containerize.

See Section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

Handle according to good manufacturing and warehousing practices. Avoid contact with eyes, skin and clothing.

Store indoors between 40F/4C and 100F/38C

Use product only for intended use. Follow label directions.

Wash hands after handling.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	CAS #	OSHA PEL (ppm or *mg.M ³) +=skin, c=ceiling	ACGIH TLV (ppm or *mg.M ³) +=skin, c=ceiling
Ammonium bifluoride	1341-49-7	2.5*	2.5*

EYES: Wear eye protection (i.e. chemical safety glasses with side shields or goggles). Contact lenses should not be worn.

SKIN: Chemical resistant clothing (i.e. gloves) is recommended.

RESPIRATORY PROTECTION: Not expected to be needed. Where over-exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

VENTILATION: Local exhaust or general room ventilation is normally adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash station is recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Purple liquid
ODOR: Cherry fragrance
ODOR THRESHOLD: NA
pH: 4-5
MELTING/FREEZING POINT: Approx. 32F/0C
BOILING POINT: APPROX 212F/100C
BOILING RANGE: NA
FLASH POINT (CC): >212F/100C
EVAPORATION RATE: Approx. that of water
FLAMMABILITY: Not flammable nor combustible
UPPER/LOWER FLAMMABILITY LIMITS: NA
UPPER/LOWER EXPLOSIVE LIMITS: NA
VAPOR PRESSURE: NA
VAPOR DENSITY: NA
RELATIVE DENSITY: 8.6 LB/GAL
SOLUBILITY: Soluble in Water
PARTITION COEFFICIENT: N-OCTANOL/WATER: NA
AUTO-IGNITION TEMPERATURE: NA
DECOMPOSITION TEMPERATURE: NA
VISCOSITY: Water thin

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable
CHEMICAL STABILITY: Stable
POSSIBILITY OF HAZARDOUS REACTIONS: Low.
INCOMPATIBLE MATERIALS: Avoid oxidizers and reducers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and other gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute overexposure and prolonged exposure to ammonium bifluoride can cause fluorosis which may result in weight loss, brittle bones, anemia and weakness and stiffness in joints.

SECTION 12: ECOLOGICAL INFORMATION

Ecological data for this chemical mixture is not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT	UN1760	Corrosive liquid, NOS (Ammonium hydrogen difluoride)	8	PGIII	-	-

SECTION 15: REGULATORY INFORMATION

RTK Ingredients : Water (7732-18-5), Ammonium bifluoride (1341-49-7), Quaternary ammonium compounds (NA), Ethoxylated C9-11 alcohols (68439-46-3)

SECTION 16: OTHER INFORMATION

NFPA 704

HAZARD RATING

4=Severe	H=Health	H=3
3=Serious	F=Fire	F=0
2=Moderate	R=Reactivity	R=0
1=Slight		
0=Minimal		

Prepared: August 1, 2013

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